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AGRICULTURAL MEMORANDUM NO 383

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Gramineae Pollen in London

5. Effect of wet days

The previous analysis was repeated examining the pollen counts on days when 5 mm or more of rain was reported at Kew for the 0600-1800 period.

Phase 1

	Zero	Low or above
Actual	14	9
Expected	15.3	17.7

- a 'non-significant result'

Phase 2

	Low	Moderate	High	Extreme
Actual	11	3	0	0
Expected	4.1	6.0	3.0	0.9

Rearranging as before into 2 x 2 tables, we find:

	Low	Moderate or above		Low/Moderate	High/Extreme
Wet day	11	3	and	14	0
Others	161	170		162	69
Chi-square		17.4			5.86
Significance		P = less than 0.01			P = 0.02

If account is taken of the fact that so far it is not known at what time of day the rain fell and also that Kew records may not be representative (especially in other than SW winds), this result is encouraging.

Phase 3

	Low	Moderate or above
Actual	17	1
Expected	12.4	5.6

which is significant at the P = 0.02 level (chi-square 5.49)

Phase 4

	Zero	Low or above
Actual	19	5
Expected	14.5	9.5

significance P = 0.06 (chi-square 3.53).

Any comments or suggestions on this paper should be referred to the author.

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